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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/084,700	02/27/2002	Todd W. Seeley	PP-01406.004 / 200130.438	1172
75	90 07/29/2003			
Chiron Corporation Intellectual Property R338 PO Box 8097			EXAMINER	
			KAUSHAL, SUMESH	
Emeryville, CA	94662-8097		ART UNIT	PAPER NUMBER
			1636	5
			DATE MAILED: 07/29/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No	Applicant(s)	
		10/084,700	SEELEY, TODD W.	
	Office Action Summary	Examiner	Art Unit	
		Sumesh Kaush	nal Ph.D. 1636	
		cation appears on the cov	er sheet with the correspondence address	s
THE I - Externafter - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIO issions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu- period for reply specified above is less than thirty (30	CATION. of 37 CFR 1 136(a). In no event, he unication. of days, a reply within the statutory mutory period will apply and will expired will, by statute, cause the application	wever, may a reply be timely filed inimum of thirty (30) days will be considered timely. e SIX (6) MONTHS from the mailing date of this community become ABANDONED (35 U.S.C. § 133)	ication.
1)[Responsive to communication(s) file	ed on 27 February 2002.		
2a)□	,	tb)☐ This action is non-	final.	
3)	Since this application is in condition closed in accordance with the praction of Claims		formal matters, prosecution as to the mee, 1935 C.D. 11, 453 O.G. 213.	erits is
4)	Claim(s) 4,5 and 16-48 is/are pendin	g in the application.		
	4a) Of the above claim(s) is/ard	e withdrawn from conside	ration.	
5)	Claim(s) is/are allowed.			
6)	Claim(s) is/are rejected.			
7)	Claim(s) is/are objected to.			
8)⊡	Claim(s) <u>4,5 and 16-48</u> are subject to	restriction and/or electio	n requirement.	
Applicati	on Papers			
9)	The specification is objected to by the	Examiner.		
10)	The drawing(s) filed on is/are:	a)□ accepted or b)□ obje	cted to by the Examiner.	
	Applicant may not request that any obje	ection to the drawing(s) be h	eld in abeyance. See 37 CFR 1.85(a).	
11)[The proposed drawing correction filed	on is: a) approv	ved b) disapproved by the Examiner.	
	If approved, corrected drawings are req	uired in reply to this Office a	ction.	
12) 🗌	The oath or declaration is objected to	by the Examiner.		
Priority (nder 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim	for foreign priority under 3	35 U.S.C. § 119(a)-(d) or (f).	
a)[☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority of	locuments have been red	eived.	
	2. Certified copies of the priority of	locuments have been red	eived in Application No	
* 5	3. Copies of the certified copies of application from the Internative the attached detailed Office action	ational Bureau (PCT Rule		е
14)[] A	cknowledgment is made of a claim fo	r domestic priority under	35 U.S.C. § 119(e) (to a provisional appl	lication).
) The translation of the foreign lang Acknowledgment is made of a claim for			
Attachmen —	t(s)			
2) Notice Notice Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449) Pa			
S. Patent and Tr PTO-326 (Re		Office Action Summary	Part of Paper No. 5	

Application/Control Number: 10/084,700

Art Unit: 1636

DETAILED ACTION

Claims 4-5 and 16-48 are pending and are examined in this office action.

▶ Applicants are advised to follow Amendment Practice under revised 37 CFR §1.121 (http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/revamdtprac.htm). Each amendment document that includes a change to an existing claim, or submission of a new claim, must include a complete listing of all claims in the application. After each claim number, the status must be indicated in a parenthetical expression, and the text of each claim under examination (with markings to show current changes) must be presented. The listing will serve to replace all prior versions of the claims in the application.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 4, 42-46, drawn to isolated HuBUB3 plypeptide, classified in class 530, subclass 350.
- II. Claims 5, 47 and 48, drawn to isolated antibodies, classified in class 530, subclass 387.1.
- III. Claims 16-33, drawn to a method of diagnosing a neoplastic disease by comparing gene expression, classified in class 435, subclass 6.
- IV. Claims 32 and 33, drawn to a method of diagnosing a neoplastic disease by comparing protein expression, classified in class 435, subclass 7.1.
- V. Claims 34-36 and 40, drawn to method of screening test compounds that interfere with binding of huBUB1 to huBUB3, classified in class 435, subclass 7.9.
- VI. Claims 37-39, drawn to a method of screening test compounds in a genetically engineered cell, classified in class 435, subclass 375.
- VII. Claim 41, drawn to a method of identifying compounds that decreases the kinase activity of huBUB1 and HuBUB3 complex, classified in class 435, subclass 7.91.

Application/Control Number: 10/084,700

Art Unit: 1636

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are distinct. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case polypeptide and antibodies are structurally and functionally distinct compounds. Thus these inventions are distinct and are of separate uses.

Inventions III and IV are distinct. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of invention III requires diagnosis of a neoplastic disease using nucleic acid sequence, whereas the method of invention IV requires diagnosis of a neoplastic disease based upon polypeptide expression. The method of nucleic acid based assays requires the use of primers and probes whereas the method of protein based assay requires the use of labeled antibodies of ligands that binds to the protein. Since the modes of operation and protocol of the using nucleic acid sequences is distinct from the use of antibodies, these inventions are distinct and are of separate uses.

Inventions V, VI and VII are distinct. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of identifying compounds that requires protein-protein interaction of isolated protein products has different modes of operation and effects as compared to a method that requires the interaction of proteins in a genetically engineered cellular micro-environment. These methods are further distinct from the invention of group VII, since this method requires the evaluation of kinase activity initiated by protein-protein interaction. Thus these inventions are distinct and art of separate uses.

In addition the method of diagnosing using nucleic acid probes (III) or antibodies (IV) are distinct from the method of identifying test compounds (V-VII), since these methods involves

Art Unit: 1636

different reagents and protocols that produces different readouts of the final results. Thus these inventions are distinct and are of separate uses.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sumesh Kaushal Ph.D. whose telephone number is 703-305-6838. The examiner can normally be reached on Mon-Fri. from 9AM-5PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yucel Irem Ph.D. can be reached on 703-305-1998. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4242 for regular communications and 703-308-8724 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

SUMESH KAUSHAL PATENT EXAMINER